

APRIL/MAY 2024

BECA63B — MOBILE COMPUTING

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the main reasons for using Cellular Systems?
2. State any two disadvantages of Cellular System with Small Cells.
3. Write any two basic reasons for a Handover.
4. Write the acronyms for GSM and GPRS.
5. What are the benefits of location information for routing in Adhoc Networks?
6. State the advantages and disadvantages of Fast Retransmit / Fast Recovery.
7. List down the capabilities of WML Script but not supported by WML.
8. Write the usage of Wireless Datagram Protocol.

9. What is Mobile Database?

10. Write any two disadvantages of Mobile Databases.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) List down the advantages and disadvantages of Cellular Systems.

Or

(b) Briefly discuss on the significances of SDMA Systems.

12. (a) Illustrate the Protocol architecture of GSM with Signalling Protocols.

Or

(b) Compare Infrared versus Radio Transmission Technologies.

13. (a) Write an overview of ad-hoc Routing Protocols.

Or

(b) Explicate the Destination Sequence Distance Vector Routing.

14. (a) Write short notes on WAP Gateway.

Or

(b) Describe about the importance of Wireless Markup Language.

15. (a) Briefly discuss on Mobile database Hoarding techniques.

Or

(b) Explicate the Client-Server Computing with Adaptation.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Narrate the types of Handoff and their characteristics.

17. Expound the three different Physical Layers supported by IEEE 802.11.

18. Discuss in detail about the Dynamic Host Configuration Protocol.

19. Illustrate the architecture of Wireless Application Protocol.

20. Explicate the Transactional models in Mobile Database.
